

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claims 1-10 (Canceled).

Claim 11 (Currently Amended): An information providing apparatus, comprising:

a first power controller which sets electric power for transmission so that a possible range of wireless communication becomes a first range;

a connection processing unit configured to conduct connection processing with respect to said information receiver when the possible range of wireless communication is set to said first range, and connection request from an information receiver is received; [[and]]

a second power controller which sets electric power for transmission so that the possible range of wireless communication becomes a second range broader than the first range when it is determined that the transmitted information did not reach said information receiver before the connection processing with said information receiver is completed; and

a third power controller which sets electric power for transmission so that the possible power of wireless communication becomes a third range broader than the second range after said second power controller sets the possible range of wireless communication, when there is no response for a packet transmitted to said information receiver, and it is determined that the transmitted information has not reached said information receiver.

Claim 12 (Canceled).

Claim 13 (Original): The information providing apparatus according to claim 11, wherein said information receiver is a portable terminal.

Claim 14 (Original): The information providing apparatus according to claim 11, wherein wireless communication is conducted according to Bluetooth™.

Claims 15-20 (Canceled).

Claim 21 (New): An information providing apparatus, comprising:

a first power controller which sets electric power for transmission so that a possible range of wireless communication becomes a first range;

a connection processing unit configured to conduct connection processing with respect to said information receiver when the possible range of wireless communication is set to said first range, and connection request from an information receiver is received; and

a second power controller which sets electric power for transmission so that the possible range of wireless communication becomes a second range broader than the first range when a predetermined first packet is received from the information receiver before the connection processing with said information receiver is completed; and

a third power controller which sets electric power for transmission so that the possible power of wireless communication becomes a third range broader than the second range after said second power controller sets the possible range of wireless communication, when there is no response for a packet transmitted to said information receiver, and the first packet is received again from the information receiver.

Claim 22 (New): The information providing apparatus according to claim 21,  
wherein said information receiver is a portable terminal.

Claim 23 (New): The information providing apparatus according to claim 21,  
wherein wireless communication is conducted according to Bluetooth™.